

Abstract of the Disclosure

5 A system for determining the state-of-health of batteries has an
adaptive component. The system tests a battery by measuring a
number of electrochemical parameters and using fuzzy logic to
compute a state-of-health for the battery. The fuzzy logic
computations are based upon membership functions which are
preferably triangular. The membership functions may be stored in
a matrix. The adaptive component adapts the system for use with
10 new models of battery by obtaining a reliable measurement of SoH
for a number of calibration batteries. Electrochemical parameters
of the calibration batteries are measured. The adaptive component
modifies a prototype matrix selected to match the chemistry type
of the calibration batteries by scaling, translating and flexing its
15 membership functions to achieve a matrix which specifies
membership functions suitable for assessing state-of-health of the
new model of battery.